

The 4<sup>th</sup> International Scholars' Conference – Universitas Klabat**Paper 147 – Sciences****THE APPLICATION OF PHONSKA FERTILIZER AND SEPRINT FERTILIZER ON GENERATIVE GROWTH ORYZA SATIVA L**

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**ABSTRACT**

Oryza sativa is the staple food for about 95% of Indonesia's population. The demand for rice (Oryza sativa) continues to rise as the population increases from year to year. However, it is not followed by an increase in rice production due to the lack of agricultural area and thus the availability of food decreases and it triggers the high prices of food commodities. Thus, the purpose of this study was to evaluate the response of Oryza sativa generative growth on the application of Phonska fertilizer and Seprint fertilizer as well as to get the appropriate dose combination of Phonska fertilizer and Seprint fertilizer for the generative growth of Oryza sativa. This study used a randomized block design (RBD) with factorial experiment consisting of two treatment factors namely Phonska fertilizer and Seprint fertilizer. The results of the study showed that (1) the dose of Phonska fertilizer did not affect the age when panicles emerged, the age of flowering, the number of grains per panicle, the weight of 100 wet seeds, or the weight of 1000 dry seed, (2) the dose of Seprint fertilizer affected the age when panicles emerged but did not affect the age of flowering, the number of grains per panicle, the weight of 100 wet seeds, the weight of 1000 wet seeds or the weight of 1000 dry seeds, (3) the combination of Phonska fertilizer with Seprint fertilizer and the combination of Seprint fertilizer with Phonska fertilizer affected the age when panicles emerged and also the age of flowering but did not affect the number of grains per panicle, the weight of 100 wet seeds, the weight of 1000 wet seeds or the weight of 1000 dry seeds.

**Keywords: Phonska fertilizer, Seprint fertilizer, Oryza Sativa**